

Maslov, V. Ye. and Marshak, Yu. L.
 INVESTIGATION OF THE SEPARATION OF SOLID
 PARTICLES IN SUSPENSION ON A FILM OF
 LIQUID FROM A STREAM WORKING IN A VORTEX
 (Issledovaniye Separatsii Tverdykh Vzveshennykh
 Chastits na Plenke Zhidkosti pri Vikhrovom Dvizhenii
 Potoka). May 59 [10]p. 15 refs. C.T.S. no. 629.
 Order from LC or SLA ml\$1.80, ph\$1.80 61-15363

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 6,
 p. 63-70.

Experiments on cylindrical models with tangential in-
 let showed that with a change in model diameter from
 50 to 400 mm, of inlet velocity of the bearing stream
 from 2.0 to 21 m/sec, and of the dust size from 0 to
 32 microns, the fundamental criterion governing the
 separation process is the Stokes' criterion, $St = \frac{\rho_p d_p^2 \omega}{4\mu}$. A change in the Froude number, $Fr = \frac{\omega^2 \phi / D_p g}{\omega^2 \phi / D_p g}$, within the limits 2.55 to 625 had no in-
 fluence on the separation process. Experiments on
 (Chemistry--Physical, TT, v. 5, no. 8) (over)

61-15363

- I. Particles--Separation
2. Fluid flow--Turbulence
3. Fluids--Surface properties
- I. Maslov, V. Ye.
- II. Marshak, Yu. L.
- III. CTS-629
- IV. Department of Scientific and
 Industrial Research
 (Gr. Brit.)

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DESCRIPTORS: *Nicotine, *Arteriosclerosis.

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Trans. of Khim[iya] i Tekh[nologiya] Topliv i Masel
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DESCRIPTORS: *Catalysis, Platinum catalysts, *Petro-
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engineering.

(Engineering--Chemical, TT, v. 8, no. 10)

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I. Maslyanskii, G. N.
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Order from OTS, SLA or ETC \$1.60 TT-63-20804

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1946,
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DESCRIPTORS: *Hydroforming (Chemical), *Benzenes,
Benzene derivatives, Synthesis (Chemistry),
*Cyclohexanes, Dehydrogenation, *Alumina-silica
catalysts, *Fuels, Production.

(Chemistry--Organic, TT, v. 11, no. 3)

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III. Title: Conversion...

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DESCRIPTORS: "Cyclohexanes, Reaction kinetics,
Catalysts.

The catalytic isomerization of cyclohexane over molybdenum sulfide under hydrogen pressure was investigated and the kinetic regularities of this reaction established. The isomerization velocity depends upon the partial pressure of cyclohexane, but is independent of the partial pressure of hydrogen. The order of the reaction of isomerization of cyclohexane over molybdenum sulfide is close to 0.6. The apparent energy of activation of cyclohexane at 370-430° is 35,400 ± 1,000 calories. Accordingly the temperature coefficient on (Chemistry--Physical, TT, v. 6, no. 7) (over

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DESCRIPTORS: *Benzenes, Hydrogenation, Hydro-
carbons, Catalysts, Molybdenum compounds, Oxides.

Molybdenum oxide catalysts suitable for destructive hy-
drogenation in the vapor phase, developed at the
author's laboratory, were previously found to be very
efficient in cracking of hydrocarbons. In order to in-
vestigate the nature of the chemical reactions occurring
on these catalysts, conversion of benzene was studied
in this work and the products obtained investigated, con-
sidering also the results reported by some other
authors. Among these products, methylcyclopentane
(58%), normal pentane (1.5%), 2-methylbutane (1.5%),
(Chemistry--Organic, TT, v. 6, no. 7) (over)

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Desulfurization, Fuels.

It was attempted to effect desulfurization of straight run
gasoline with end point 115°C and a sulfur content of
0.12-0.29% at 200°C, 10 atm hydrogen pressure, a
space velocity of 2 and a ratio of hydrogen to gasoline
of 6:1. At the lowest of the indicated sulfur contents
the catalyst was stable and the sulfur reduced to 0.01%
within 30 hours. With a higher content of sulfur the
nickel catalyst became poisoned. With a higher ratio
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